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CO TO	Applica	tion Number	10/582,46		ss it displays a valid OMB Control number.
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[35. [8]	Art Unit		Unassigne	ed	
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under 37 CFR 1.52 or 1.53					
SIGN	ATURE OF APPL	ICANT, ATT	ORNEY, C	R AGENT	
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Printed name Mary E. Bak					
Date Sept 28,	20 <i>0</i> 6		Reg. No.	31,215	
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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln. No.

: 10/582,461

Confirmation No.:

**Applicant** 

: Look et al.

Filed

: June 12, 2006

TC/A.U.

: unassigned

Examiner

: unassigned

Customer No.

: 38199

Title

: METHODS FOR PRODUCING STORAGE STABLE VIRUSES

AND IMMUNOGENIC COMPOSITIONS THEREOF

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

## INFORMATION DISCLOSURE STATEMENT

Sir:

Applicant submits to the Examiner the attached Form PTO/SB/08A/B document listing and this paper pursuant to 37 CFR § 1.56 and § 1.97-1.98. Form PTO/SB/08A/B is attached and copies of the documents are enclosed herewith. This Information Disclosure Statement is submitted more than three months from the filing date of this application, but before the receipt of a first Office Action. Therefore, no fees are believed due.

The Director is hereby authorized to charge any deficiency in any fees due with the filing of this paper or during the pendency of this application, or credit any overpayment in any fees to our Deposit Account No. 08-3040.

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## REMARKS

Listed below are documents cited in the International Search Report dated September 9, 2005 in the corresponding International Patent Application No. PCT/US2004/041803, filed December 10, 2004. A copy of the Report is enclosed, together with copies of the documents.

- (i) International Patent Publication No. WO 03/086443, published October 23, 2003
- (ii) US Patent No. 4,273,762, issued June 16, 1981
- (iii) MAKOSCHEY et al., "Serum-Free Produced Bovine Herpesvirus Type 1 and Bovine Parainfluenza Type 3 Virus Vaccines are Efficacious and Safe", Cytotechnol., 39(3):139-145 (2002)
- (iv) TANNOCK et al., "Freeze-Drying of Respiratory Syncytial Viruses for Transportation and Storage", J. Clin. Microbiol., 25(9):1769-1771 (1987)
- (v) PHILLIPS et al., "A Study of Water Binding in Lyophilized Viral Vaccine Systems", Cryobiology, 18(4):414-419 (August, 1981)
- (vi) International Patent Publication No. WO 02/09749, published February 7, 2002
- (vii) International Patent Publication No. WO 04/017990, published March 4, 2004
- (viii) LABCONCO, "FreeZone 1 Liter Benchtop Freeze Dry Systems: User's Manual" [Online] from <a href="https://www.labconco.com/manual/freeze">www.labconco.com/manual/freeze</a>, page 24, 2003
- (ix) International Patent Publication No. WO-99/62500, published December 9, 1999
- (x) JACKSON et al., "Safety of a Trivalent Live Attenuated Intranasal Influenza Vaccine, FluMist™, Administered in Addition to Parenteral Trivalent Inactivated Influenza Vaccine to Seniors with Chromic Medical Conditions", Vaccine, 17(15-16):1905-1909 (April 9, 1999)
- (xi) International Patent Publication No. WO 02/28422, published April 11, 2002

The month of publication for documents AR, AS, AV, AAR, AAU, AAW-AAY, and BW-BY could not be determined. The years of publication for documents AR, AV, AAR, AAU, AAX, and BW-BY are sufficiently earlier than the effective US filing date and/or the foreign priority date of the present application so that the particular month of publication of the documents is not in issue (MPEP 609).

The Examiner is respectfully requested to consider the enclosed document identified in this paper and in the attached Form PTO/SB/08A/B during the course of examination of this application.

Respectfully submitted,

**HOWSON & HOWSON** Attorneys for Applicants

By: Yng E. Bak
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

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	Complete if Known
Application Number	10/582,461
Filing Date	June 12, 2006
First Named Inventor	Look et al.
Art Unit	unassigned
Examiner Name	unassigned
Attorney Docket Number	AM-101358

	U.S. PATENT DOCUMENTS					
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where	
Initials*	No.1	Number-Kind Code <sup>2(if known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear	
	AA	US-4,084,330	04-18-1978	FRASER		
	AB	US-5,489,266	02-06-1996	GRIMARD		
	AC	US-5,732,837	03-31-1998	JONES		
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	Al	US-5,993,824	11-30-1999	MURPHY et al.		
	AJ	US-4,273,762	06-16-1981	MCALEER et al.		

	FOREIGN PATENT DOCUMENTS						
Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant	Т6	
Initials*	No.1	Country Code <sup>3</sup> - Number <sup>4</sup> -Kind Code <sup>5</sup> ( <i>if known</i> )	MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear	'	
	AL	WO-03/086443	10-23-2003	TRUONG-LE		1	
	AM	WO-02/09749	03-04-2004	PARRINGTON			
	AN	WO-04/017990	03-04-2004	DOMINOWSKI		<b>†</b>	
	AO	WO-99/62500	12-09-1999	VOLKIN et al.		1	
	AP	WO-02/28422	04-11-2002	COLAU et al.		1	

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STATEMENT BY APPLICANT		First Named Inventor	Look et al.		
				Art Unit	unassigned
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Sheet	2	of	4	Attorney Docket Number	AM-101358

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include the name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item, (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	AR	ARYA, "Stabilization of Vaccines: To Be or Not To Be", Vaccine, 19:595-597 (2001)	
	AS	CARPENTER et al., "5 - Rational Design of Stable Lyophilized Protein Formulations: Theory and Practice", in <u>Rational Design of Stable Protein Formulations</u> , Klumer Academic/Plenum Publishers, New York, NY: 109-33 (2002)	
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	AAS	HILLEMAN et al., "Improving the Heat Stability of Vaccines: Problems, Needs, and Approaches", Rev. Infect. Dis., 11(Suppl. 3): S613-616 (May-June, 1989)	
	AAT	JACKSON et al., "Safety of a Trivalent Live Attenuated Intranasal Influenza Vaccine, FluMist™?, Administered in Addition to Parenteral Trivalent Inactivated Influenza Vaccine to Seniors with Chromic Medical Conditions", Vaccine, 17(15-16):1905-1909 (April 9, 1999)	

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Signature	Considered	

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INFORMATION DISCLOSURE				Application Number	10/582,461
				Filing Date	June 12, 2006
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				Art Unit	unassigned
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Sheet	3	of	4	Attorney Docket Number	AM-101358

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include the name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item, (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	AAU	NATE et al., "Appendix N: Prospects for Immunizing Against Respiratory Syncytial Virus", in New Vaccine Development Establishing Priorities, Vol. 1, Washington, National Academic Press, pp. 397-409 (1985)	
	AAV	KNEYBER et al., "Current Concepts on Active Immunization Against Respiratory Syncytial Virus for Infants and Young Children" Pediatr. Infect. Dis. J., 21(7):685-696 (July, 2002)	
	AAW	LABCONCO, "FreeZone 1 Liter Benchtop Freeze Dry Systems: User's Manual" [Online] from www.labconco.com/manual/freeze, page 24 (2003)	
	AAX	LEMON et al., "The Thermostability of Vaccines", Int. J. Technol. Assess. Health Care, 10(1):177-184 (1994)	
	AAY	MAKOSCHEY et al., "Serum-Free Produced Bovine Herpesvirus Type 1 and Bovine Parainfluenza Type 3 Virus Vaccines are Efficacious and Safe", Cytotechnol., 39(3):139-145 (2002)	
	AAZ	MARTIN et al., "Epidemiology of Respiratory Viral Infection Among Paediatric Inpatients Over a Six-year Period in North-East England", J. Lancet, 1035-1038 (November 11, 1978)	
	BR	MCCONNOCHIE et al., "Variation in Severity of Respiratory Syncytial Virus Infections with Subtype", J. Pediatr., 117(1)(1):52-62 (July, 1990)	
	BS	MELNICK et al., "Effect of pH on Thermal Stabilization of Oral Poliovirus Vaccine by Magnesium Chloride", Proc. Soc. Exp. Biol. Med., 112:894-897 (April, 1963)	
	ВТ	PHILLIPS et al., "A Study of Water Binding in Lyophilized Viral Vaccine Systems", Cryobiology, 18(4):414-419 (August, 1981)	
	BU	RASMUSSEN et al., "Inadequate Poliovirus Immunity Levels in Immunized Illinois Children", Am. J. Dis. Child, 126:465-469 (October, 1973)	
	BV	ROBBINS et al., "Obstacles to Developing Vaccines for the Third World" Sc. Am., 259:126-133 (November, 1988)	
	BW	STARK et al., "Occurrence of Respiratory Syncytial Virus Subtypes in Hospitalized Children in Cleveland, Ohio from 1985-1988", Pediatr. Pulmonol., 11:98-102 (1991)	

Examiner	Date
Signature	Date
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	ВХ	TANNOCK et al., "Freeze-Drying of Respiratory Syncytial Viruses for Transportation and Storage", J. Clin. Microbiol., 25(9):1769-1771 (1987)	
	BY	WERTZ et al., "Approaches to Immunization Against Respiratory Syncytial Virus", Biotech., 20:151-176 (1992)	
	BZ	WULFF et al., "Respiratory Syncytial Virus: Properties of Strains Propagated in Monkey Kidneys Cell Cultures", Proc. Soc. Exp. Biol. Med., 115:458-462 (February, 1964)	
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